

## 数式テスト

$$\nexists n \forall x, y, z ((n, x, y, z \in \mathbb{N}) \wedge (x^n + y^n = z^n) \wedge (n \geq 3))$$

### 1. 自然演繹

$$\frac{A \Rightarrow B \quad A}{B} (\Rightarrow E)$$

$$\frac{A}{B \vee A} (\vee I) \quad \frac{B}{B \vee A} (\vee I)$$

$$\frac{A \vee B \quad \frac{[A]^1}{B \vee A} (\vee I) \quad \frac{[B]^1}{B \vee A} (\vee I)}{B \vee A} (\vee E, 1)$$

$$\frac{A \vee (B \vee C) \quad \frac{\frac{[A]^2}{A \vee B} (\vee I)}{(A \vee B) \vee C} (\vee V) \quad \frac{[B \vee C]^2 \quad \frac{\frac{[B]^1}{A \vee B} (\vee I)}{(A \vee B) \vee C} (\vee I) \quad \frac{[C]^1}{(A \vee B) \vee C} (\vee I)}{(A \vee B) \vee C} (\vee E, 1)}{(A \vee B) \vee C} (\vee E, 2)$$

$$\frac{A \vee B \quad \frac{\vdots}{B \vee A} (\vee I) \quad \frac{[B]^1}{B \vee A} (\vee I)}{B \vee A} (\vee E, 1)$$

$X$	$P(X=i)$
1	1/6
2	1/6
3	1/6
4	1/6
5	1/6
6	1/6

$$\frac{A \vee (B \vee C) \quad \frac{\frac{[A]^2}{A \vee B} (\vee I)}{(A \vee B) \vee C} (\vee V) \quad \frac{[B \vee C]^2 \quad \frac{\frac{[B]^1}{A \vee B} (\vee I)}{(A \vee B) \vee C} (\vee I) \quad \frac{[C]^1}{(A \vee B) \vee C} (\vee I)}{(A \vee B) \vee C} (\vee E, 1)}{(A \vee B) \vee C} (\vee E, 2)$$

$$\frac{A \vee (B \vee C) \quad \frac{\frac{[A]^2}{A \vee B} (\vee I)}{(A \vee B) \vee C} (\vee I) \quad \frac{[B \vee C]^2 \quad \frac{\frac{[B]^1}{A \vee B} (\vee I)}{(A \vee B) \vee C} (\vee I) \quad \frac{[C]^1}{(A \vee B) \vee C} (\vee I)}{(A \vee B) \vee C} (\vee E, 1)}{(A \vee B) \vee C} (\vee E, 2)$$

$$\frac{\frac{(A \rightarrow B) \vee (A \rightarrow B) \quad \frac{\frac{[A \rightarrow B]^1 \quad [A]^2}{B}(\rightarrow E) \quad \frac{[A \rightarrow C]^1 \quad [A]^2}{B}(\rightarrow E)}{B \vee C}(\vee I)}{B \vee C}(\vee E, 1)}{A \rightarrow (B \wedge C)}(\rightarrow I, 2)$$

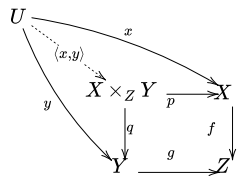
37. 自然演繹

$$\vdash ((A \rightarrow B) \rightarrow A) \rightarrow A$$

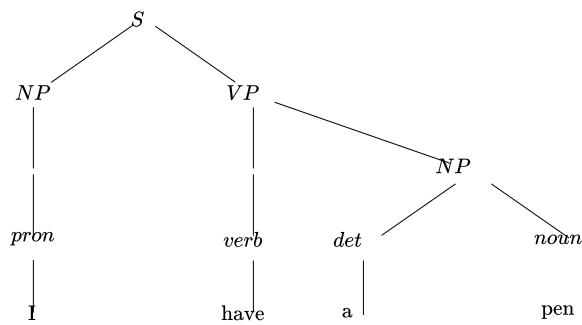
$$\frac{\frac{[(A \rightarrow B) \rightarrow A]^3 \quad \frac{\frac{[\neg A]^2 \quad [A]^1}{\perp}(\neg E)}{B}(\perp)}{A \rightarrow B}(\rightarrow I, 1)}{A}(\rightarrow I, 1)}{\frac{\perp}{A}(\perp_c, 2)}(\neg E)$$

$$\frac{}{(A \rightarrow B) \rightarrow A \rightarrow A}(\rightarrow I, 3)$$

2. 可換図式



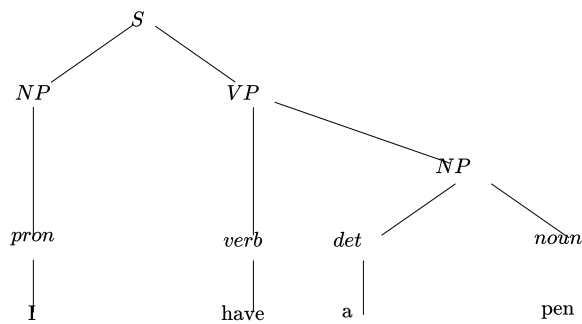
3. 構文本1



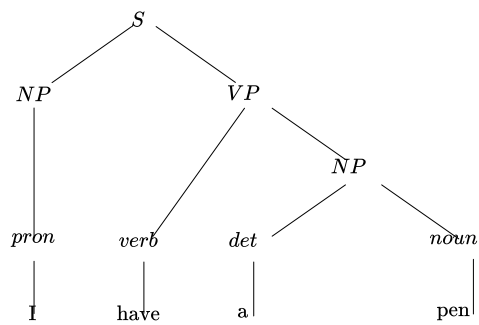
4. マスウェル方程式

$$\begin{aligned}\nabla \cdot \mathbf{B} &= 0 \\ \nabla \times \mathbf{E} &= -\frac{\partial \mathbf{B}}{\partial t} \\ \nabla \cdot \mathbf{D} &= \rho \\ \nabla \times \mathbf{H} &= \mathbf{J} + \frac{\partial \mathbf{D}}{\partial t}\end{aligned}$$

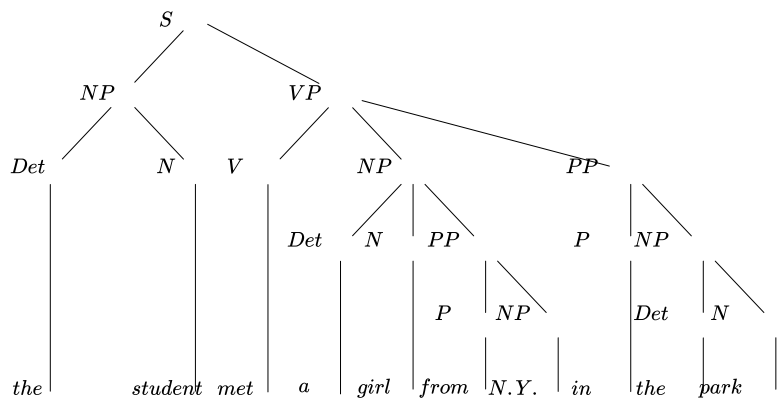
5. 構文本2



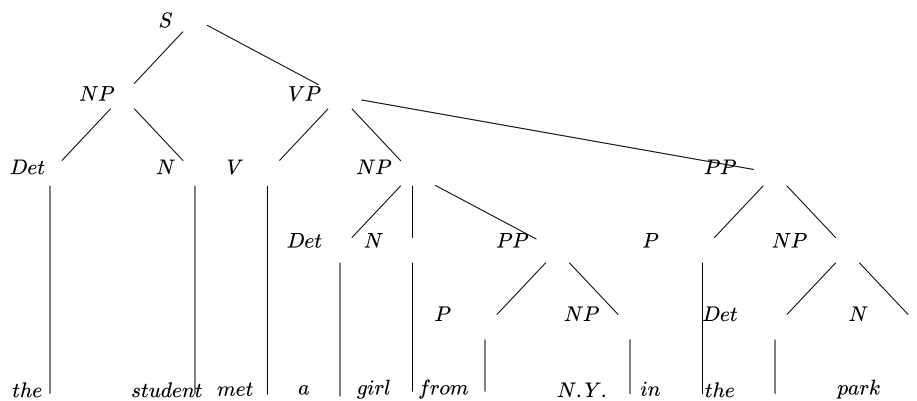
## 6. 構文木3



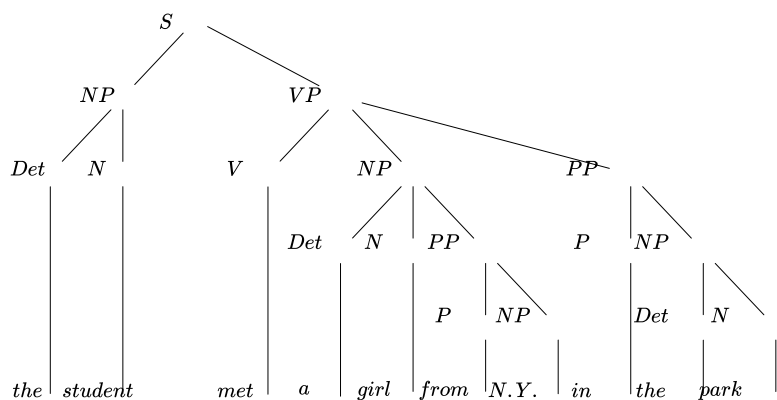
### 6.1. 長い文章



### 6.2. 長い文章



### 6.3. 長い文章



### 6.4. 長い文章

